

Phasing Assumptions in Draft PEIR



Advisory Committee
December 13, 2006

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- ◆ **Importance of Phasing Assumptions**
- ◆ **Primary Influences on Phasing**
- ◆ **Examples of Phasing**
 - Alternative 2
 - Alternative 3

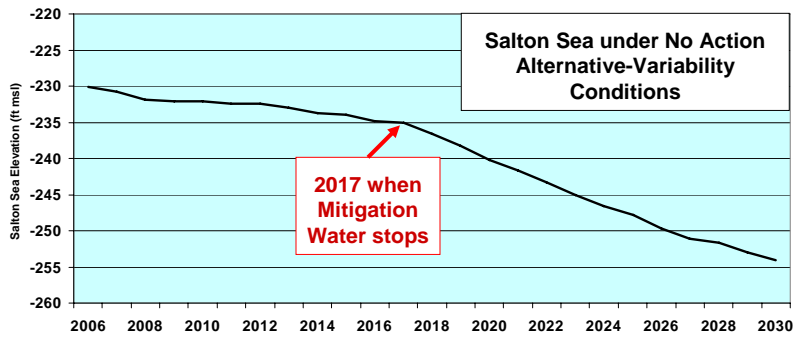
Importance of Phasing Assumptions

- ◆ **Phasing of construction determines when functional habitat will be available**
- ◆ **Phasing of construction determines funding needs for construction and operations and maintenance**
- ◆ **Phasing of construction could influence ability to construct other projects in the area due to air quality regulations, availability of materials, or traffic congestion**

Primary Influences on Phasing

- ◆ **Schedule for pre-construction activities**
 - Evaluation of project-specific alternatives
 - Acquisition of easements or land deeds
 - Obtain permits and approvals
- ◆ **Some facilities constructed after water recedes**
 - Saline Habitat Complex
 - Air Quality Management
 - Access Roads
- ◆ **Other facilities use barges that require water**
 - Geotube® Berms
 - Perimeter Dikes
 - Barriers

Water Elevation will Recede as Inflows Decline until about 2030



Examples

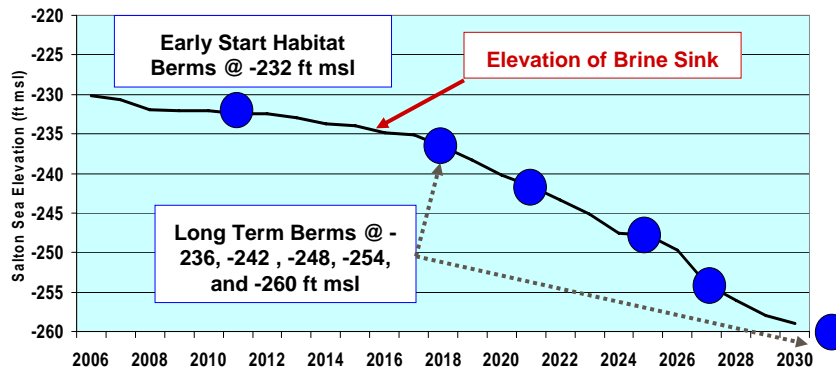
◆ **Alternative 2 - Saline Habitat Complex II**

- Air Quality Management Canals along shoreline
- Saline Habitat Complex in several locations
- Air Quality Management facilities on exposed playa

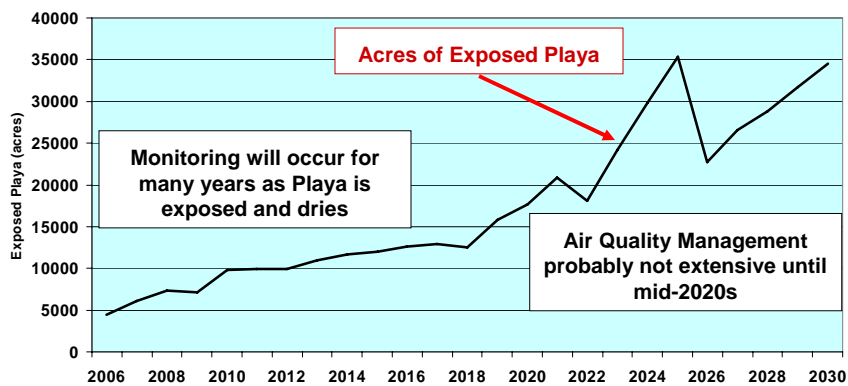
◆ **Alternative 3 - Concentric Rings**

- Air Quality Management Canals downslope of Second Ring
- Concentric Rings constructed with rock placed from barges
- Air Quality Management facilities on exposed playa

Alternative 2: Saline Habitat Complex constructed as water recedes



Alternative 2: Air Quality Management if Exposed Playa is Emissive



Draft PEIR Costs Reflect Assumptions

Estimated Costs for Alternative 2 (in million dollars)					
Items	Phase I (Present - 2020)	Phase II (2020 - 2030)	Phase III (2030 - 2040)	Phase IV (2040 - 2078)	Total
Barrier and Perimeter Dikes	-	-	-	-	-
Constructed Habitat	\$257.8	\$1,322.3	\$353.1	-	\$1,933.2
Water Conveyance	\$150	\$73			\$223
Air Quality Management	\$388.1	\$51.7	\$375.2	\$362.2	\$1,177.2
Total Construction	\$795.9	\$1,447.0	\$728.3	\$362.2	\$3,333.4
Annual Operations and Maintenance	\$35	\$51	\$81	\$107	

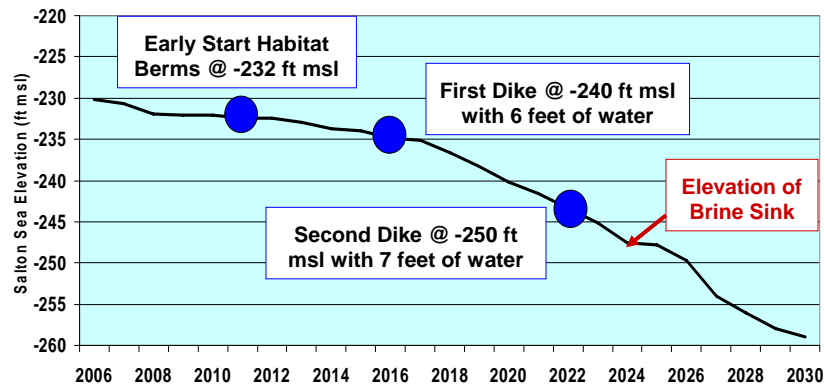
Assumes Construction of Air Quality Management Canals in Phase I

Funding Needs could be Shifted for Actual Construction Assumptions

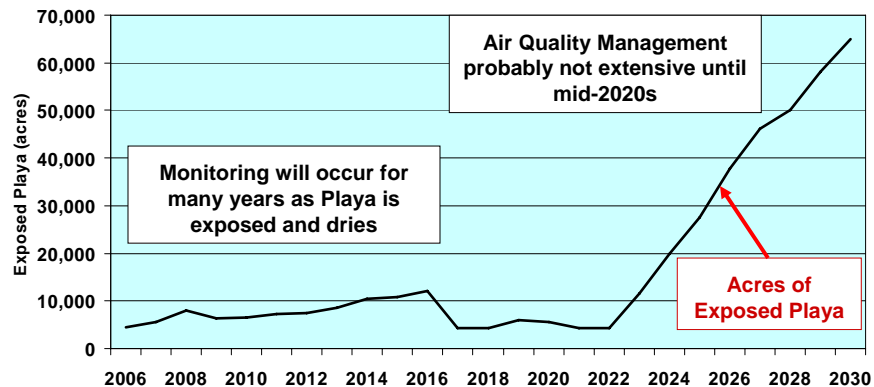
Estimated Costs for Alternative 2 (in million dollars)					
Items	Phase I (Present - 2020)	Phase II (2020 - 2030)	Phase III (2030 - 2040)	Phase IV (2040 - 2078)	Total
Barrier and Perimeter Dikes	-	-	-	-	-
Constructed Habitat	\$257.8	\$1,322.3	\$353.1	-	\$1,933.2
Water Conveyance	\$150	\$73			\$223
Air Quality Management	0	\$439.8	\$375.2	\$362.2	\$1,177.2
Total Construction	\$407.8	\$1,835.1	\$728.3	\$362.2	\$3,333.4
Annual Operations and Maintenance	\$8	\$51	\$81	\$107	

Assumes Construction of Air Quality Management Canals in Phase II

Alternative 3: Perimeter Dikes constructed before Brine Sink Declines for Proper Barge Operations



Alternative 3: Air Quality Management if Exposed Playa is Emissive

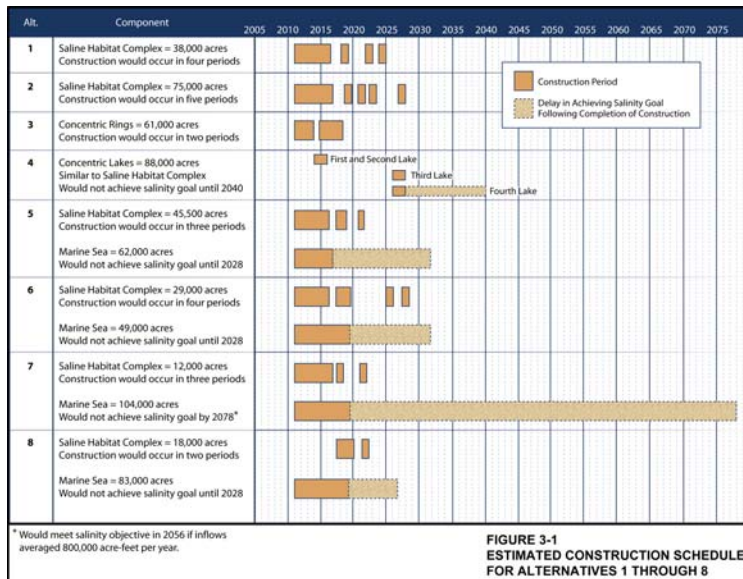


Draft PEIR Costs Reflect Assumptions

Estimated Costs for Alternative 3 (in million dollars)					
Items	Phase I (Present - 2020)	Phase II (2020 - 2030)	Phase III (2030 - 2040)	Phase IV (2040 - 2078)	Total
Barrier and Perimeter Dikes	\$1,493	\$1,466	-	-	\$2,959
Constructed Habitat	\$76.4	-	-	-	\$76.4
Water Conveyance	-	\$138.4	\$124.3	-	\$262.7
Air Quality Management	-	\$832.5	\$794.1	-	\$1,626.6
Total Construction	\$1,569.4	\$2,436.9	\$918.3	-	\$4,924.7
Annual Operations and Maintenance	-	\$71	\$138	\$138	

Limited ability to modify schedule

Construction Schedule reflects these Assumptions



Final Assumptions will need to be
Developed in Project Level
Analyses